

INTERNATIONAL SEARCH REPORT

International Application No

:T/DK2004/000840

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C259/10 A61K31/165 C07D213/84 C07D401/12 C07D413/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07C A61K C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS, EMBASE, CHEM ABS Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99/01426 A (WARNER-LAMBERT COMPANY; BARRETT, STEPHEN, DOUGLAS; BRIDGES, ALEXANDER,) 14 January 1999 (1999-01-14) cited in the application page 5, line 3 - line 8; claims 1,7,23,24; examples 6,7,10,13-102	1-44
X	WO 02/06213 A (WARNER-LAMBERT COMPANY; BARRETT, STEPHEN, DOUGLAS; BIWERSI, CATHLIN; K) 24 January 2002 (2002-01-24) cited in the application page 88 - page 119; claims 1,28-31,34; examples	1-44
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

28 April 2005

Date of mailing of the international search report

22.06.2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Härtinger, S

INTERNATIONAL SEARCH REPORT

International Application No

T/DK2004/000840

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 155 110 A (CONNOR ET AL) 13 October 1992 (1992-10-13) cited in the application column 3, line 28; claim 4; examples 4,25	1-10, 12-23, 25-31, 34-44
X	KALGUTKAR A S ET AL: "Amide Derivatives of Meclofenamic Acid as Selective Cyclooxygenase-2 Inhibitor" BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, OXFORD, GB, vol. 12, 2002, pages 521-524, XP002319950 ISSN: 0960-894X page 522, right-hand column, last paragraph - page 523, left-hand column, paragraph 1; table 2; compounds 12,13,14,15	1-10, 12-23, 25-31, 34-44
X	EP 1 321 518 A (WARNER-LAMBERT COMPANY LLC) 25 June 2003 (2003-06-25) page 2, paragraph 6 page 4, paragraph 24	1-5,7,9, 10, 12-23, 25-31, 33-44
X	WO 03/062189 A (WARNER-LAMBERT COMPANY LLC; BARRETT, STEPHEN, DOUGLAS; KAUFMAN, MICHAEL) 31 July 2003 (2003-07-31) claim 1; examples; table 1	1-44
X	WO 00/35436 A (WARNER-LAMBERT COMPANY; DUDLEY, DAVID, THOMAS; FLORY, CRAIG, MASON; SA) 22 June 2000 (2000-06-22) claims 10,13	1-44
X	US 6 147 107 A (DENT ET AL) 14 November 2000 (2000-11-14) column 4, line 6 - line 51; claim 1	1-44
X	WO 00/41505 A (WARNER-LAMBERT COMPANY; TECLE, HAILE; BARRETT, STEPHEN, DOUGLAS) 20 July 2000 (2000-07-20) page 14 - page 16; claims 4,5; compounds 5,20	1-44
X	WO 00/40235 A (WARNER-LAMBERT COMPANY; BRIDGES, ALEXANDER, JAMES; DUDLEY, DAVID, THOMAS) 13 July 2000 (2000-07-13) page 56; claim 8; examples 6a-77a; table 1	1-44
	----- -/--	

INTERNATIONAL SEARCH REPORT

International Application No

:T/DK2004/000840

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/062191 A (WARNER-LAMBERT COMPANY LLC; BARRETT, STEPHEN, DOUGLAS; KAUFMAN, MICHAEL) 31 July 2003 (2003-07-31) page 9, line 3 - line 5; claim 1; examples; table 1 -----	1-44
X	WO 01/68619 A (WARNER-LAMBERT COMPANY; BIWERSI, CATHLIN; TECLE, HAILE; WARMUS, JOSEPH) 20 September 2001 (2001-09-20) claims 6,16; examples 4,6,61 -----	1-44
X	WO 02/076496 A (VAN ANDEL INSTITUTE; DUESBERY, NICHOLAS, S; WEBB, CRAIG, P; VANDE WOUDE) 3 October 2002 (2002-10-03) claim 6 -----	1-44
X	WO 02/18319 A (WARNER-LAMBERT COMPANY; CHEN, MICHAEL, HUAI, GU; DAVIS, EDWARD, MARK;) 7 March 2002 (2002-03-07) page 92; claim 1; examples 15,20-22,27 -----	1-44
X	DATABASE BEILSTEIN BEILSTEIN CROSSFIRE INSTITUT ZUR FOERDERUNG DER WISSENSCHAFTEN; BRN 2826119 1989, XP002319951 abstract & MAMALIS ET AL: JOURNAL OF THE CHEMICAL SOCIETY, CHEMICAL SOCIETY. LETCHWORTH, GB, 1965, pages 6278-6287, ISSN: 0368-1769 -----	1-5
X	DATABASE BEILSTEIN BEILSTEIN CROSSFIRE INSTITUT ZUR FOERDERUNG DER WISSENSCHAFTEN; BRN 2186299 1989, XP002319952 abstract & WOLF ET AL: JUSTUS LIEBIGS ANNALEN DER CHEMIE, VERLAG CHEMIE GMBH. WEINHEIM, DE, 1975, pages 1245-1250, ISSN: 0075-4617 -----	1-5
X	DATABASE BEILSTEIN BEILSTEIN CROSSFIRE INSTITUT ZUR FOERDERUNG DER WISSENSCHAFTEN; Citation Number 134310 1988, XP002319953 abstract & ALLAIS A ET AL: CHIMIE THERAPEUTIQUE, EDITIONS DIMEO, ARCUEIL, FR, vol. 8, 1973, pages 154-168, ISSN: 0009-4374 -----	1-5
	----- -/--	

INTERNATIONAL SEARCH REPORT

International Application No

:T/DK2004/000840

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 1 126 672 A (FARBWERKE HOECHST AKTIENGESELLSCHAFT) 11 September 1968 (1968-09-11) examples 1,3,4	1-5
X	SCOTT A W ET AL: "SOME HYDROXYLAMINE DERIVATIVES OF ANTHRANILIC ACID" JOURNAL OF ORGANIC CHEMISTRY, AMERICAN CHEMICAL SOCIETY, EASTON, US, vol. 7, no. 6, 1942, pages 508-516, XP002313446 ISSN: 0022-3263 page 509, last paragraph -& DATABASE BEILSTEIN BEILSTEIN CROSSFIRE INSTITUT ZUR FOERDERUNG DER CHEMISCHEN WISSENSCHAFTEN; BRN 3461601 1990, XP002319954 abstract	1-5
X	WO 95/25723 A (AGREVO UK LIMITED; RIORDAN, PETER, DOMINIC; BODDY, IAN, KENNETH; OSBOU) 28 September 1995 (1995-09-28) claim 1; example 8; compounds 41,67,96	1-5,7,9
X	WO 03/024222 A (E. I. DU PONT DE NEMOURS AND COMPANY; BERGER, RICHARD, ALAN; FLEXNER,) 27 March 2003 (2003-03-27) page 122; claim 1; table A; compounds 568,569,570,571	1-5
A	WO 02/068406 A (AMGEN INC) 6 September 2002 (2002-09-06) the whole document	1-44
P,X	WO 2004/037853 A (IRM LLC; HE, YUN; ELLIS, DAVID, ARCHER; ANACLERIO, BETH, MARIE; KUHEN,) 6 May 2004 (2004-05-06) examples 8,9; compound 9	1-5
P,X	DATABASE WPI Section Ch, Week 200425 Derwent Publications Ltd., London, GB; Class B02, AN 2004-262131 XP002319955 -& JP 2004 075614 A (SANKYO CO LTD) 11 March 2004 (2004-03-11) abstract; examples I-299 -/--	1-44

INTERNATIONAL SEARCH REPORT

International Application No.

T/DK2004/000840

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>& EL-KHAMRY A M ET AL: "Synthesis and reactions of some biologically active 2-(2'-thienyl)benzoxazinone and quinazolinone derivatives." DIE PHARMAZIE. MAY 1989, vol. 44, no. 5, May 1989 (1989-05), pages 312-315, ISSN: 0031-7144</p> <p>-----</p> <p>DATABASE BEILSTEIN BEILSTEIN INSTITUT ZUR FOERDERUNG DER CHEMISCHEN WISSENSCHAFTEN; BRN 5600004 1993, XP002326586 abstract & EL-KHAMRY A M ET AL: "Synthesis and reactions of some biologically active 2-(2'-thienyl)benzoxazinone and quinazolinone derivatives." DIE PHARMAZIE. MAY 1989, vol. 44, no. 5, May 1989 (1989-05), pages 312-315, ISSN: 0031-7144</p> <p>-----</p>	1-44
X	<p>KOHL H ET AL: "Cyclisierungreaktionen von o-acylamino-benzhydroxamsäure-O-alkylester n" JUSTUS LIEBIGS ANNALEN DER CHEMIE, VERLAG CHEMIE GMBH. WEINHEIM, DE, vol. 766, 1972, pages 106-115, XP002094547 ISSN: 0075-4617 tables 2,3; compounds 1,4</p> <p>-----</p>	1-5
A	<p>WO 02/055501 A (AMGEN INC) 18 July 2002 (2002-07-18) claims; examples</p> <p>-----</p>	1,6,8, 26-44
X	<p>EP 0 711 757 A (F. HOFFMANN-LA ROCHE AG) 15 May 1996 (1996-05-15) claims 1,8; examples</p> <p>-----</p>	1,6,8, 26-29

INTERNATIONAL SEARCH REPORT

International application No.
PCT/DK2004/000840

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☒ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
1-44
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☒ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-5,7,9-44(part)

compound (I) with X and Y = bond

2. claims: 1-5,7,9-44(part)

compound (I) with X and/or Y is not a chemical bond

3. claims: 6,8,26-44(part)

compound (I) with at least one of D, E, F, G is not a carbon atom

4. claims: 1-5,7,9-44(part)

compound (I) with at least one of R2/R3, R3/R4, R4/R5 forms a fused ring

5. claim: 46(part)

compound (II) which is an acid or ester

6. claim: 46(part)

compound (II) which is a nitrile

7. claim: 46(part)

compound (XV)

8. claim: 45

compound (III)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

T/DK2004/000840

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9901426	A	14-01-1999	AT 277895 T 15-10-2004
			AU 757046 B2 30-01-2003
			AU 8262798 A 25-01-1999
			BR 9810366 A 29-08-2000
			CA 2290506 A1 14-01-1999
			CN 1261877 A ,C 02-08-2000
			DE 69826662 D1 04-11-2004
			DE 69826662 T2 17-02-2005
			EP 0993439 A1 19-04-2000
			HR 980368 A1 30-04-1999
			HU 0003731 A2 28-04-2001
			JP 2002511092 T 09-04-2002
			NO 996491 A 29-12-1999
			NZ 501276 A 27-10-2000
			PL 337698 A1 28-08-2000
			SI 993439 T1 31-12-2004
			TW 396149 B 01-07-2000
			WO 9901426 A1 14-01-1999
			US 2003078428 A1 24-04-2003
			US 2005049429 A1 03-03-2005
			ZA 9805728 A 27-01-1999
WO 0206213	A	24-01-2002	AU 7349801 A 30-01-2002
			BG 107564 A 30-09-2003
			BR 0112584 A 17-06-2003
			CA 2416685 A1 24-01-2002
			CN 1446197 A 01-10-2003
			CZ 20030069 A3 13-08-2003
			EE 200300030 A 15-10-2004
			EP 1301472 A2 16-04-2003
			HR 20030083 A1 30-04-2003
			HU 0302781 A2 29-12-2003
			JP 2004504294 T 12-02-2004
			NO 20030249 A 12-02-2003
			SK 422003 A3 04-11-2003
			WO 0206213 A2 24-01-2002
			US 2004054172 A1 18-03-2004
			ZA 200300348 A 13-04-2004
US 5155110	A	13-10-1992	AU 2909289 A 23-05-1989
			EP 0316630 A1 24-05-1989
			WO 8903818 A1 05-05-1989
			ZA 8807696 A 27-06-1990
EP 1321518	A	25-06-2003	AU 2002348791 A1 09-07-2003
			EP 1321518 A1 25-06-2003
			WO 03054180 A1 03-07-2003
			JP 2004000135 A 08-01-2004
			US 2003224500 A1 04-12-2003
WO 03062189	A	31-07-2003	BR 0307071 A 28-12-2004
			CA 2472367 A1 31-07-2003
			EP 1467965 A1 20-10-2004
			WO 03062189 A1 31-07-2003
			US 2003232889 A1 18-12-2003
WO 0035436	A	22-06-2000	AU 776788 B2 23-09-2004
			AU 2185800 A 03-07-2000

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

T/DK2004/000840

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0035436	A	CA 2346448 A1 EP 1143957 A2 HU 0104693 A2 JP 2002532415 T WO 0035436 A2	22-06-2000 17-10-2001 28-03-2002 02-10-2002 22-06-2000
US 6147107	A	14-11-2000	NONE
WO 0041505	A	20-07-2000	AU 2483400 A 01-08-2000 BR 9916857 A 04-12-2001 CA 2349180 A1 20-07-2000 EP 1150950 A2 07-11-2001 JP 2000212141 A 02-08-2000 JP 2002534446 T 15-10-2002 WO 0041505 A2 20-07-2000
WO 0040235	A	13-07-2000	AT 292462 T 15-04-2005 AU 2483000 A 24-07-2000 BR 9916785 A 23-10-2001 CA 2350234 A1 13-07-2000 EP 1140062 A2 10-10-2001 JP 2002534380 T 15-10-2002 WO 0040235 A2 13-07-2000 US 2004141924 A1 22-07-2004 US 6696440 B1 24-02-2004
WO 03062191	A	31-07-2003	BR 0307060 A 26-10-2004 CA 2473545 A1 31-07-2003 EP 1467968 A1 20-10-2004 WO 03062191 A1 31-07-2003 TW 592692 B 21-06-2004 US 2004006245 A1 08-01-2004
WO 0168619	A	20-09-2001	AU 4737201 A 24-09-2001 BR 0109188 A 18-03-2003 CA 2403017 A1 20-09-2001 EP 1339702 A1 03-09-2003 JP 2003527379 T 16-09-2003 MX PA02008103 A 29-11-2002 WO 0168619 A1 20-09-2001
WO 02076496	A	03-10-2002	CA 2442015 A1 03-10-2002 EP 1377312 A1 07-01-2004 WO 02076496 A1 03-10-2002
WO 0218319	A	07-03-2002	AU 7704401 A 13-03-2002 BG 107635 A 30-09-2004 BR 0113520 A 24-06-2003 CA 2420003 A1 07-03-2002 CN 1458921 A 26-11-2003 CZ 20030477 A3 15-10-2003 EP 1313694 A1 28-05-2003 HU 0300828 A2 29-09-2003 JP 2004507518 T 11-03-2004 NO 20030844 A 25-02-2003 PL 360699 A1 20-09-2004 SK 2072003 A3 08-01-2004 WO 0218319 A1 07-03-2002

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

CT/DK2004/000840

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0218319	A		ZA 200301182 A	12-05-2004
GB 1126672	A	11-09-1968	DE 1240873 B	24-05-1967
			AT 260899 B	25-03-1968
			AT 260897 B	25-03-1968
			BE 673458 A	08-06-1966
			CH 470356 A	31-03-1969
			CH 465633 A	30-11-1968
			DK 114980 B	25-08-1969
			DK 119410 B	28-12-1970
			FI 44620 B	31-08-1971
			FR 5253 M	28-08-1967
			FR 1459530 A	02-02-1967
			IL 24732 A	31-12-1969
			NL 6515475 A	09-06-1966
			SE 345851 B	12-06-1972
			US 3417080 A	17-12-1968
WO 9525723	A	28-09-1995	AT 168099 T	15-07-1998
			AU 688473 B2	12-03-1998
			AU 1898195 A	09-10-1995
			BR 9507105 A	09-09-1997
			CN 1143954 A	26-02-1997
			CZ 9602690 A3	11-12-1996
			DE 69503365 D1	13-08-1998
			DE 69503365 T2	07-01-1999
			EP 0750611 A1	02-01-1997
			WO 9525723 A1	28-09-1995
			HU 74778 A2	28-02-1997
			JP 9510471 T	21-10-1997
			PL 316289 A1	06-01-1997
			US 5756524 A	26-05-1998
			ZA 9502205 A	31-10-1995
WO 03024222	A	27-03-2003	BR 0212993 A	17-08-2004
			CA 2458163 A1	27-03-2003
			EP 1427285 A1	16-06-2004
			HU 0401893 A2	28-01-2005
			JP 2005502716 T	27-01-2005
			MX PA04002648 A	07-06-2004
			WO 03024222 A1	27-03-2003
			US 2004209923 A1	21-10-2004
WO 02068406	A	06-09-2002	US 2003195230 A1	16-10-2003
			BG 108013 A	30-04-2004
			CA 2434178 A1	06-09-2002
			CN 1538836 A	20-10-2004
			CZ 20031883 A3	14-07-2004
			EE 200300325 A	15-12-2003
			EP 1467721 A2	20-10-2004
			HU 0302719 A2	28-11-2003
			JP 2004527499 T	09-09-2004
			MX PA03006260 A	22-09-2003
			SK 8742003 A3	02-03-2004
			WO 02068406 A2	06-09-2002
			US 2003203922 A1	30-10-2003
			ZA 200305198 A	30-06-2004

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

T/DK2004/000840

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2004037853	A	06-05-2004	AU 2003286594 A1 WO 2004037853 A2 US 2004152719 A1	13-05-2004 06-05-2004 05-08-2004
JP 2004075614	A	11-03-2004	NONE	
WO 02055501	A	18-07-2002	US 2002147198 A1 CA 2434274 A1 EP 1358161 A2 JP 2004531473 T MX PA03006010 A WO 02055501 A2 US 2003134836 A1 US 2004204437 A1	10-10-2002 18-07-2002 05-11-2003 14-10-2004 10-09-2003 18-07-2002 17-07-2003 14-10-2004
EP 0711757	A	15-05-1996	US 5688795 A AU 3459995 A BR 9505107 A CA 2162089 A1 CN 1136039 A CZ 9502910 A3 EP 0711757 A1 FI 955376 A HU 73843 A2 JP 8208614 A MA 23717 A1 NO 954453 A NZ 280396 A PL 311261 A1 SG 70950 A1 TR 960469 A2 ZA 9509268 A	18-11-1997 16-05-1996 09-09-1997 09-05-1996 20-11-1996 11-09-1996 15-05-1996 09-05-1996 30-09-1996 13-08-1996 01-07-1996 09-05-1996 26-05-1997 13-05-1996 21-03-2000 21-07-1996 31-01-1997